

Application No.: 08/487,312

Docket No.: 220002016004

CLAIM AMENDMENTS

1-18. (canceled)

19. (currently amended): Bovine growth hormone produced by a method which comprises culturing cells which contain a recombinant DNA molecule which DNA molecule comprises a nucleotide sequence encoding bovine growth hormone comprising the amino acid sequence at positions 2-191 of Figure 1 or 1-191 of Figure 1 or an allelic variant thereof, said encoding nucleotide sequence contained in an expression system effective in producing said encoded bovine growth hormone in a recombinant host cell,

said culturing under conditions wherein the encoding nucleotide sequence is expressed to produce said bovine growth hormone; and
recovering the bovine growth hormone from the culture.

20. (previously presented): The bovine growth hormone of claim 19 which comprises the amino acid sequence at positions 2-191 of Figure 1.

21. (previously presented): The bovine growth hormone of claim 19 wherein the cells are *E. coli*.

22. (previously presented): The bovine growth hormone of claim 19 which is in purified and isolated form.

23. (new): The bovine growth hormone of claim 19 which comprises the amino acid sequence at positions 1-191 of Figure 1.

24. (new): The bovine growth hormone of claim 19 wherein the amino acid sequence at positions 2-191 of Figure 1 or 1-191 of Figure 1 or said allelic variant is preceded by a methionine residue.

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25. (new): The bovine growth hormone of claim 24 wherein the amino acid sequence at positions 2-191 of Figure 1 is preceded by a methionine residue.

26. (new): The bovine growth hormone of claim 24 wherein the amino acid sequence at positions 1-191 of Figure 1 is preceded by a methionine residue.

27. (new): The bovine growth hormone of claim 24 wherein the amino acid sequence of said allelic variant is preceded by a methionine residue.

28. (new): The bovine growth hormone of claim 19 wherein said DNA molecule generates an RNA encoding the amino acid sequence at positions 2-191 of Figure 1, or 1-191 of Figure 1, or an allelic variant thereof, said encoding sequence preceded by the codon AUG.

29. (new): The bovine growth hormone of claim 28 wherein said DNA molecule generates an RNA encoding the amino acid sequence at positions 2-191 of Figure 1 said encoding sequence preceded by the codon AUG.

30. (new): The bovine growth hormone of claim 28 wherein said DNA molecule generates an RNA encoding the amino acid sequence at positions 1-191 of Figure 1 said encoding sequence preceded by the codon AUG.

31. (new): The bovine growth hormone of claim 28 wherein said DNA molecule generates an RNA encoding the amino acid sequence of an allelic variant thereof, said encoding sequence preceded by the codon AUG.

32. (new): The bovine growth hormone of claim 19 wherein the cells are bacteria.

33. (new): The bovine growth hormone of claim 24 wherein the cells are *Escherichia coli* (*E. coli*).

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34. (new): The bovine growth hormone of claim 25 wherein the cells are *E. coli*.
35. (new): The bovine growth hormone of claim 26 wherein the cells are *E. coli*.
36. (new): The bovine growth hormone of claim 27 wherein the cells are *E. coli*.
37. (new): The bovine growth hormone of claim 28 wherein the cells are *E. coli*.
38. (new): The bovine growth hormone of claim 29 wherein the cells are *E. coli*.
39. (new): The bovine growth hormone of claim 30 wherein the cells are *E. coli*.
40. (new): The bovine growth hormone of claim 31 wherein the cells are *E. coli*.